

Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

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PURCHASE ORDER

Purchase Order ID PO23695

Purchase Order Date 4/8/2014 PO Print Date 4/8/2014

Page Number 1 of 1

Order From:

CHEMETALL CANADA LIMITED

P.O. BOX 46186 POSTAL STATION A TORONTO, ON M5W 4K9 CA

VC-CHE001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

877-311-1471

Purolator ground collect

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Line	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ C Taxable Promise Date	CD Req Qty/ Unit of Measure		PO Unit Price	Extended Price
-	71400-40 •	OKT-2205-H GORDOTEST INDICATOR 155	4/11/2014	1.00	\mathcal{L}	\$14.97	\$14.97
			Yes 4/1/2014 19	Each			
indica	or Toy GARV			·		Line Total:	\$14.97
##eliver To: GARY /1400-40		OKT-6089-K GARDOTEST SOLUTION	4/11/2014	1.00		\$27.53	\$27.53
		201.0.5N SODIUM	Yes 4/11/2014	Each	14914/1	(V)	

Line Total:

\$27.53

PO Total:

\$42.50

Deliver To: GARY

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explaination.

Chemetall

675 Central Avenue, New Providence, NJ 07974, (908)464-6900 Emergency Telephone No.: (800) 255-3924

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions No information available.

Methods for Containment and Clean Up: Absorb with suitable material. Always obey local regulations.

Section 7 - Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes.

Storage: Protect from freezing and physical damage.

Section 8 - Exposure Controls, Personal Protection

Bromophenol Blue, Sodium Salt, CAS# 62625-28-9, ACGIH TLV: NA, OSHA PEL: NA Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: : Normal ventilation is adequate. Ensure eyewash and safety showers are

available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Normal ventilation is adequate.

Section 9 - Physical and Chemical Properties

Appearance/Physical State: Dark Red-Purple Liquid

Odor: Odorless % Volatility: No Information Available

Boiling Point: Approx 100C Specific Gravity: Approx 1

Melting Point: Approx 0 C Vapor Pressure: No Information Available

Vapor Density: No Information Available Flash Point: Not Applicable

Evaporation Rate: No Information Available Coefficient of water/oil distribution: Not Available

pH: No Information Available Odor Threshold: Not Available

Flammability: No Information Available
Solubility: Infinite

Decomposition Temperature: No Information Available
Partition Coefficient n-octanol/water: No data available

Relative Density: No Information Available Molecular Weight: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatible Materials None identified.

Conditions to Avoid: No Information Available.
Hazardous Decomposition Products: None Expected

Hazardous Polymerization: Does not occur

Hazardous Reactions: None under normal processing.

Section 11 - Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness - See Section 2

LD50 orl-rat: NA

LC50 inhalation-rat: NA

Irritation: No Information Available

Toxicologically Synergistic: No Information Available

Chronic Exposure

Carcinogenicity No information available.
Sensitization No information available.
Mutagenic Effects No information available.
Reproductive Effects No information available.

Developmental Effects (Immediate/Delayed) No information available.

Teratogenicity No information available.

Other Adverse Effects No Information Available.

Endocrine Disruptor Information No information available

Section 12 - Ecological Information

Ecotoxicity: Not Available.

Persistence and Degradability: No Information Available Mobility: No Information Available

Bioaccumulation/ Accumulation: No Information Available

675 Central Avenue, New Providence, NJ 07974, (908)464-6900 Emergency Telephone No.: (800) 255-3924

Gardotest Indicator 155 **Bromophenol Blue Indicator**

Section 1 - Chemical Product and Company Identification

Catalog Number: OKT-2205-G, OKT-2205-H, OKT-2205-J, OKT-2205-K, OKT-2205-L, OKT-2205-M, OKT-2205-N

Product Identity: Gardotest Indicator 155, Bromophenol Blue Indicator

Chemical Family: Not Applicable Synonyms: Not Applicable

Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291

Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 12/27/06

Revision Date: 06/05/08, 06/14/10, 02/19/12, 08/22/13

Section 2 - Hazard Identification

Emergency Overview: Non-flammable, non-corrosive, non-toxic. Does not present significant health hazards. Wash Odor: Odorless

areas of contact with water.

Appearance: Dark Red-Purple Liquid

Target Organs: Eyes, skin.

Potential Health Effects/ Routes of Exposure:

Eyes: May cause slight irritation. Skin: May cause slight irritation.

Ingestion: Large doses may cause upset stomach

Inhalation: Not likely to be a hazard

Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA) Aggravated Medical Conditions No information available These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 - Composition, Information on Ingredients

Bromophenol Blue, Sodium Salt, CAS# 62625-28-9, 0.04% w/v Water, purified, CAS# 7732-18-5, >99% w/v

Section 4 - First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Flash Point: Not Applicable Autoignition Temperature No information available.

Explosion Limits Upper No data available

Lower No data available

Extinguishing Media: Use means suitable to extinguishing surrounding fire.

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions / Equipment: Use normal procedures. Poisonous gases may be produced in fire. Use

protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: Irritating and toxic fumes and gases may be produced during combustion or

thermal decomposition.

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: No information available

NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

Section 6 - Accidental Release Measures



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Section 13 - Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Absorb with suitable material.

All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 - Transport Information

DOT - Not Regulated

Section 15 - Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA. Canada DSL: These chemicals are listed on Canada's DSL list. TSCA: The components of this solution are listed on the TSCA Inventory

SARA Title III Section 313: Not Applicable

RCRA Status: Not Applicable

CERCLA Reportable Quantity: Not Applicable

WHMIS: Not Applicable

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the

information required by the CPR

Section 16 - Additional Information

HMIS Ratings: Health: 1 Flammability: 0 Reactivity: 0 Protective Equipment: B (Protective Eyewear, Gloves) MSDS Prepared by: Matt Nelson

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.

Receiving Report

Packing Slip: Invoice: Receipt: New Supplier	_	Batch No: M128892 Dart P/O: 23896 Release Note Attached: Yes No Waybill Attached: Yes No				N/A N/A N/A					
Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number				
			Initials of Receiver			QC12					
Production/Admin: Date Received/Costing Initial Location Finitial Location											
H:\FORMS\Purchasing\approved purch\RECREPORT Rev F											



675 Central Avenue, New Providence, NJ 07974, (908)464-6900 Emergency Telephone No.: (800) 255-3924

Gardotest Solution 23 Sodium Hydroxide 0.5N

Section 1 - Chemical Product and Company Identification

Catalog Number: OKT-6089-G, OKT-6089-H, OKT-6089-J, OKT-6089-K, OKT-6089-L, OKT-6089-M, OKT-6089-N

Product Identity: Gardotest Solution 23, Sodium Hydroxide 0.5N

Chemical Family: Alkali Synonyms: Caustic Soda

Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331

Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 12/28/06

Revision Date: 07/09/08, 01/12/12, 02/17/12, 04/11/13

Section 2 - Hazard Identification

Emergency Overview

Mildly corrosive, non-flammable, non-toxic. May cause mild irritation to areas of contact. Contact a physician if irritation

develops.

Appearance: Clear, colorless liquid Odor: Odorless

Target Organs: respiratory system, eyes, skin. Potential Health Effects/ Routes of Exposure:

Eyes: May cause irritation and burns. Skin: May cause irritation and burns.

Ingestion: May cause mild burns of the mouth, throat, and stomach. Symptoms may include bleeding, vomiting, diarrhea,

fall in blood pressure.

Inhalation: May cause mild irritation.

Chronic Effect / Carcinogenicity: Prolonged or repeated skin contact may cause dermatitis. (IARC, NTP, OSHA)

Aggravated Medical Conditions No information available These chemicals are considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 - Composition, Information on Ingredients

Sodium Hydroxide, CAS# 1310-73-2, 2% w/v Water, purified, CAS# 7732-18-5, 98% w/v

Section 4 - First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops. **Ingestion:** DO NOT induce vomiting. Dilute with water. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Flash Point: Not Applicable Autoignition Temperature No information available.

Explosion Limits Upper No data available

Lower No data available

Extinguishing Media: Any means suitable for extinguishing fire. Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved

breathing equipment.

Hazardous Combustion Products: No information Available Sensitivity to mechanical impact No information available. Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors

NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

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675 Central Avenue, New Providence, NJ 07974, (908)464-6900 Emergency Telephone No.: (800) 255-3924

Section 6 - Accidental Release Measures

Personal Precautions Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions Do not let this chemical enter the environment.

Methods for Containment and Clean Up Collect liquid and dilute with water. Neutralize with dilute acid solutions. Decant water to drain with excess water. Absorb with suitable material. Dispose of remaining solid as normal refuse. Always obey local regulations.

Section 7 - Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes. Do not mix with acids.

Storage: Keep container tightly closed. Store with corrosives. Protect from freezing and physical damage.

Section 8 - Exposure Controls, Personal Protection

Sodium Hydroxide, CAS# 1310-73-2, ACGIH TLV: 2 mg/m3, OSHA PEL: 2mg/m3

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Normal ventilation is adequate. Ensure eyewash and safety showers are

available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Normal ventilation is adequate

Section 9 - Physical and Chemical Properties

Appearance/Physical State: Clear, colorless liquid

Odor: Odorless % Volatility: No Information Available

Boiling Point: Approx 100C Specific Gravity: Approx 1
Melting Point: Approx 0C Vapor Pressure: 14mmHg @ 20C

Vapor Density: >1 Flash Point: Not Applicable

Evaporation Rate: Not Available Coefficient of water/oil distribution: Not Available

pH: Alkaline Odor Threshold: Not Available

Flammability: No Information Available

Decomposition Temperature: No Information Available

Decomposition Temperature: No Information Available

Solubility: Infinite Partition Coefficient n-octanol/water: Not Available

Relative Density: No Information Available Molecular Weight: Not Available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatible Materials: Acids, organic halogen compounds, metals such as aluminum, tin and zinc.

Conditions to Avoid: Incompatible materials, excess heat

Hazardous Decomposition Products: Oxides of sodium, decomposition by reaction with certain metals releases

flammable and explosive hydrogen gas.

Hazardous Polymerization: Does not occur

Hazardous Reactions: Not Available

Section 11 - Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness - See Section 2 LD50 orl-rat: NA LC50 inhalation-rat: NA

Irritation: No Information Available

Toxicologically Synergistic: No Information Available

Chronic Exposure

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Mutagenic Effects No information available.

Reproductive Effects No Information available.

Developmental Effects (Immediate/Delayed) No information available.

Teratogenicity No information available.

Other Adverse Effects No information available.

Endocrine Disruptor Information No information available

Section 12 - Ecological Information

Ecotoxicity: Sodium Hydroxide has high acute and chronic toxicity to aquatic life, influenced by hardness and alkalinity of the receiving water. Do not empty into drains.



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Persistence and Degradability: No Information Available Mobility: No Information Available Bioaccumulation/ Accumulation: No Information Available

Section 13 - Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Neutralize with dilute acid solutions.

All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 - Transport Information

DOT - DOT - UN1824, Sodium Hydroxide Solution, 8, II

Section 15 - Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are considered hazardous by OSHA.

Canada DSL: CAS# 7732-18-5 & 1310-73-2 are listed on Canada's DSL list.

TSCA: The components of this solution are listed on the TSCA Inventory

SARA Title III Section 313: Not Applicable

RCRA Status: Not Applicable

CERCLA Reportable Quantity: Sodium Hydroxide - 1000lbs.

WHMIS: E: Corrosive Material

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the

information required by the CPR.

Section 16 - Additional Information

HMIS Ratings:
Health: 2 Flammability: 0 Reactivity: 0
Protective Equipment:B (Protective Eyewear, Gloves)
MSDS Prepared by: Matt Nelson

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained form the products use.